

# EUROPEAN PATENT OFFICE

## Patent Abstracts of Japan

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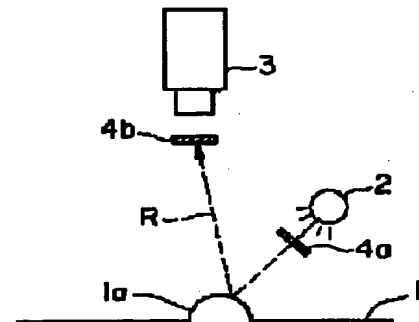
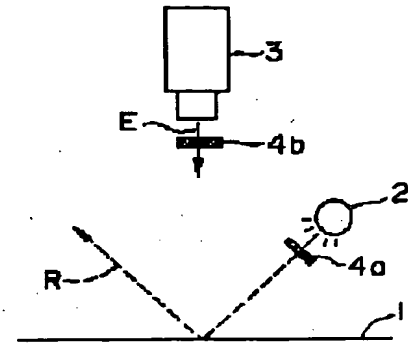
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APPLICANT : FUJIMORI KOGYO KK;

INVENTOR : WAKAMATSU MAKOTO;

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TITLE : OPTICAL MONITORING DEVICE



**ABSTRACT :** PROBLEM TO BE SOLVED: To prevent regular reflection light from impinging onto a light receiver and to accurately monitor the color or the presence or absence of the defect of a specimen constantly without poorly being affected by the regular reflection light by providing polarizers at the transmitting side of a light source and the receiving side of a light receiver, respectively, with a polarization axis being shifted by 90°.

**SOLUTION:** The vibration orientation of transmitted light from a light source 2 to a specimen 1 becomes constant due to the passage through a polarization filter 4a, so that the vibration orientation of regular reflection light R on the surface of the specimen 1 also becomes constant. Therefore, the regular reflection light R is nearly cut by a polarization filter 4b where the polarization filter 4a and the polarization axis are shifted by 90 degrees before it enters a camera 3, thus preventing halation of the camera 3. On the other hand, irregular reflection light cannot be cut by the polarization filter 4b and enters the camera 3 since vibration orientation is multipolarized. Therefore, even if the regular reflection light R from recesses and projections 1a on the surface of the specimen 1 possibly enter a visual line E of the camera 3, it is cut by polarization filters 4a and 4b and only irregular reflection light enters the camera 3.

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